

OPERATOR MANUAL

Shampaine® **4900B/4900E** **Series** **Surgical Table**

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 **GETINGE** Castle

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Rev. G (3/20/97) Logo Change

Related Publications:

Installation Instructions	350387
Service Manual	350389
Parts Catalog	350390

DESCRIPTION OF SYMBOLS & NOTES IN MANUAL

The following symbols with related notes appear in this manual.



"WARNING" notes alert the user to the possibility of personal injury.



"CAUTION" notes alert the user to the possibility of damage to the equipment.



"Notes" alert the user to pertinent facts and conditions.



Getinge/Castle, Inc. assumes no liability for table performance when used with accessories designed by others for use on Shampaine equipment, or damage resulting to Shampaine equipment resulting from the use of accessories designed by others.



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IMPORTANT

SPECIAL SAFETY INSTRUCTIONS THAT FOLLOW APPEAR WITHIN THE MANUAL.
READ THEM CAREFULLY BEFORE OPERATING THE UNIT AND FOLLOW INSTRUCTIONS.

WARNING notes alert the user to the possibility of personal injury.
CAUTION notes alert the user of the possibility of damage to the equipment.

IMPORTANT

LES INSTRUCTIONS SPECIALES DE SECURITE SUIVANTES APPARAISSENT DANS LE MANUEL.
LISEZ-LES ATTENTIVEMENT AVANT D'UTILISER LE MATERIEL ET CONFORMEZ-VOUS STRICTEMENT.

DANGER alerte à l'utilisateur à la possibilité de blessure.
ATTENTION alerte à l'utilisateur à la possibilité de dégâts au matériel.

GENERAL DESCRIPTION

(p. 1-1)

WARNING — POSSIBLE EXPLOSION HAZARD: DO NOT operate the table in the presence of flammable anesthetics. The Shampaine 4900B and 4900E are designed for use in non-hazardous anesthetizing locations.

WARNING — This table is not to be used for patient transport purposes.

POWER SUPPLY (4900B)

(p. 1-3)

WARNING — This table does not have a mains switch. Disconnect power at appliance inlet or unplug power cord.

WARNING — ELECTRICAL HAZARD: Repeated tripping or fuse replacement indicates a ground fault or overload condition which must be investigated prior to further use of the table. The table will not operate reliably under such a condition and may be electrically unsafe.

POWER SUPPLY (4900E)

(p. 1-4)

WARNING — This table does not have a mains switch. Disconnect power at appliance inlet or unplug power cord.

WARNING — ELECTRICAL HAZARD: Repeated tripping or fuse replacement indicates a ground fault or overload condition which must be investigated prior to further use of the table. The table will not operate reliably under such a condition and may be electrically unsafe.

DESCRIPTIONS GENERALES

(p. 1-1)

DANGER D'EXPLOSION: N'UTILISEZ PAS la table en présence d'anesthésiques inflammables. Les modèles Shampaine 4900B et 4900E sont conçus pour être utilisés dans des locaux d'anesthésie sans danger d'explosion.

AVERTISSEMENT — Cette table ne doit pas servir à transporter les patients.

ALIMENTATION ÉLECTRIQUE (4900B)

(p. 1-3)

AVERTISSEMENT — Cette table n'est pas munie d'un interrupteur d'alimentation. Couper le courant à partir de l'entrée de l'appareil ou encore, en débranchant le cordon d'alimentation.

DANGER DE CHOC ELECTRIQUE: Les défaillances fréquentes du mécanisme déclencheur ou des fusibles sont le signe d'une mauvaise mise à la terre ou de la surcharge du matériel. Ces causes doivent être éliminées avant la remise en service. Dans le cas contraire, la table ne pourrait pas fonctionner normalement et peut présenter des dangers de choc électrique.

ALIMENTATION ÉLECTRIQUE (4900E)

(p. 1-4)

AVERTISSEMENT — Cette table n'est pas munie d'un interrupteur d'alimentation. Couper le courant à partir de l'entrée de l'appareil ou encore, en débranchant le cordon d'alimentation.

DANGER DE CHOC ELECTRIQUE: Les défaillances fréquentes du mécanisme déclencheur ou des fusibles sont le signe d'une mauvaise mise à la terre ou de la surcharge du matériel. Ces causes doivent être éliminées avant la remise en service. Dans le cas contraire, la table ne pourrait pas fonctionner normalement et peut présenter des dangers de choc électrique.

CONTROL PENDANT

(p. 1-6)

WARNING — Unwanted movement may occur if a patient positioning switch remains depressed after the POWER (START) bar is released. Always release both the POWER (START) bar and patient positioning switch after desired position is achieved.

EMERGENCY PENDANT

(p. 1-7)

WARNING — Unwanted movement will occur if the control pendant is operated simultaneously with the emergency pendant. To ensure patient safety, the control pendant should be removed from the base receptacle before using the emergency pendant.

RADIOLUCENT TABLE TOP

(p. 1-7)

CAUTION — Protect the top and bottom surfaces from nicks and scratches. Scratches more than .005 inch (127 microns) deep may appear on X-rays. Damaged or scratched panels should be replaced if X-ray quality is affected.

ENVIRONMENTAL AND STORAGE REQUIREMENTS

(p. 1-8)

CAUTION — Do not expose the table to steam or heat sources, or place the table where it may be exposed to unusually high temperatures.

CAUTION — Do not clean the table with a high-pressure water gun, as an electrical malfunction could occur.

PINCH POINTS

(p. 2-1)

WARNING — Severe cutting or crushing injury may occur if any part of a patient or OR staff member is in a table pinch point when the table function movement is initiated.

CAUTION — Damage to the table or object may occur if any foreign object, accessory, clamp, etc. is in a table pinch point when a table function movement is initiated.

NORMAL OPERATION

(p. 2-2)

CAUTION — Do not stand on the base cover. Damage to table or operator injury may result.

TABEAU DE COMMANDE

(p. 1-6)

AVERTISSEMENT — Certains déplacements intempestifs peuvent survenir et le bouton de positionnement du patient demeure enfoncé une fois que l'on a actionné la barre de mise en marche <<POWER (START)>>. Il faut donc toujours avoir soin de mettre la barre <<POWER (START)>> et le bouton de positionnement du patient hors fonction après avoir placé la table dans la position voulue.

COMMANDE MOBILE D'URGENCE

(p. 1-7)

AVERTISSEMENT — Certains déplacements intempestifs vont survenir si l'on actionne la commande mobile de réglage en même temps que la commande mobile d'urgence. Dans le but d'assurer la sécurité du patient, il faut retirer la commande de réglage de la prise que comporte la base avant de se servir de la commande mobile d'urgence.

SURFACE TRANSPARENTE AUX RAYONNEMENTS

(p. 1-7)

ATTENTION: Protégez les surfaces supérieures et inférieures de rainures et égratignures. Des égratignures de plus de 0.005" (127 microns) de profondeur seraient visibles aux rayons X. Les panneaux égratignés doivent être changés si la qualité radiologique est affectée.

PRECAUTIONS DE STOCKAGE ET D'ENTRETIEN

(p. 1-8)

ATTENTION: N'exposez pas la table à des sources de chaleur et de vapeur. Ne la rangez pas dans des endroits où elle peut être exposée à des températures trop élevées.

ATTENTION: Ne nettoyez pas la table au jet d'eau à haute pression car cela peut endommager les parties électriques.

POINTS DE PINCEMENT

(p. 2-1)

DANGER: Une coupure ou lésion sévère peut survenir si une partie du corps du patient OU d'une personne de service se trouve prise dans un point de pincement lorsque la table est mise en mouvement.

ATTENTION: La table ou autre objet, accessoire, pince, etc. peuvent être endommagés s'ils se trouvent pris dans un point de pincement lorsque la table est en mouvement.

FONCTIONNEMENT NORMAL

(p. 2-2)

ATTENTION: Ne vous tenez pas sur le couvercle de la base pour éviter les risques de dégâts matériels ou corporels.

SET UP

(p. 2-2)

CAUTION — Keep the pendant plugged in at all times to prevent entrance of fluids and contamination into the receptacle. This could cause the table to malfunction.

WARNING — Improper orientation of the footswitch plug may result in reverse functioning and patient injury.

CAUTION — Always replace the protective cap on the receptacle when the footswitch is not in use. Entrance of fluids and contamination can cause table malfunction.

CAUTION — If excessive fluid drainage is anticipated, the footswitch should be protected by wrapping it with a clear disposable plastic cover.

SETUP

(p. 2-3)

WARNING — DO NOT use the headrest as a table extension or mount crutches or lithotomy holders to the side rail. Overloading of this type can fracture the ratchet pawls, resulting in failure of the headrest. The headrest should only be used for supporting the head.

FLOOR LOCK SYSTEM

(p. 2-5)

WARNING — POSSIBILITY OF TIPPING: For maximum stability, the table should always be locked to the floor whenever a patient is on the table, or is being transferred to or from the table.

CONTROL PENDANT

(p. 2-6)

CAUTION — Storage of clamps, accessories, etc. on the base cover may result in damage to lift column shields and prevent proper elevation/descent of the table.

HEADREST

(p. 2-8)

WARNING — DO NOT use the headrest as a table extension or mount crutches or lithotomy holders to the side rail. Overloading of this type can fracture the ratchet pawls, resulting in failure of the headrest. The headrest should only be used for supporting the head.

CAUTION — Support the headrest while raising or lowering as it will fall freely when the ratchet is released.

MISE EN SERVICE

(p. 2-2)

ATTENTION: Gardez la pièce à main branchée dans la prise pendant tout le temps pour l'isoler de fluides et de contamination qui pourraient provoquer le mauvais fonctionnement de la table.

DANGER DE BLESSURE: La mauvaise orientation de la prise de la pédale de commande peut mener au fonctionnement inverse de la table et blesser le patient.

ATTENTION: Remettez toujours le couvercle de protection de la prise lorsque la pédale de commande n'est pas en service. L'accès de fluides et de contamination pourrait provoquer le mauvais fonctionnement de la table.

ATTENTION: Si un drainage de fluides trop abondant est à prévoir, la pédale de commande doit être protégée avec du plastique transparent.

MISE EN SERVICE

(p. 2-3)

DANGER DE BLESSURE: N'UTILISEZ PAS le repose-tête comme rallonge et ne montez pas de béquilles et de fixations de lithotomie sur le garde-corps. Une surcharge de ce type peut provoquer la rupture du rochet, le déblocage du repose-tête et la blessure du patient. Le repose-tête doit être utilisé uniquement pour soutenir la tête.

SYSTEME DE VERROUILLAGE AU SOL

(p. 2-5)

DANGER DE BASCULEMENT: Pour une stabilité maximale, la table doit être toujours verrouillée au sol lorsqu'un patient est étendu dessus ou transféré sur ou de la table.

COMMANDE DE LA PIECE A MAIN

(p. 2-6)

ATTENTION: Ne rangez pas des pinces, accessoires, etc. sur le couvercle de la base de peur d'endommager les écrans de protection de la colonne et d'entraver le mouvement vertical normal de la table.

REPOSE-TETE

(p. 2-8)

DANGER DE BLESSURE: N'UTILISEZ PAS le repose-tête comme rallonge et ne montez pas des béquilles et des fixations de lithotomie sur le garde-corps latéral. Une surcharge de ce type peut provoquer la rupture du rochet et le déblocage du repose-tête. Le repose-tête doit être utilisé uniquement pour soutenir la tête.

ATTENTION: Maintenez le repose-tête lorsque vous l'élevez ou l'abaissez car il tomberait librement une fois le rochet débloqué.

FOOTSWITCH

(p. 2-9)

WARNING — Improper orientation of the footswitch plug may result in reverse functioning and patient injury.

WARNING — A pinch point exists between the lowered leg section and the base cover when the table top is lowered, tilted right or left, or moved in reverse Trendelenburg. Severe cutting or crushing injury may occur if a finger, toe, foot, etc. is in this pinch point when the table function is initiated.

CAUTION — Take care when using the TILT LEFT/TILT RIGHT function with the table leg section in the down position to avoid colliding with the base cover.

PATIENT POSITIONING

(p. 2-10)

WARNING — POSSIBILITY OF TIPPING: Overloading may result in tipping of the table or failure of the table sections to move. DO NOT exceed these maximum loads in service.

- Patient lifting capacity is 500 lbs. (227 kg). This means the TABLE UP and Trendelenburg/Reverse Trendelenburg functions will operate with a 500 lb. patient positioned on the table.
- Patient articulation capacity is 400 lbs. (181 kg). This means that a 400 lb. patient can be moved into any of the standard procedural positions.
- Section lift capacity of 300 lbs. (136 kg) located 13 in. (330 mm) from the pivot point. This applies to both the BACK UP and LEG UP function.

PATIENT POSITIONING

(p. 2-11)

WARNING — POSSIBILITY OF TIPPING: To maintain an adequate reserve of stability, remember that the patient's pelvis should always be located over the seat or back section of the table. Cantilevering the patient beyond the normal range of the table will impair stability and result in patient injury and equipment damage if the table is upset.

TRANSFER SUPPORT

(p. 2-12)

WARNING — POSSIBILITY OF INJURY: Patient or OR personnel injury and equipment damage may result from the improper use of this accessory. Follow the guidelines below to prevent injury or damage.

PEDALE DE COMMANDE

(p. 2-9)

DANGER DE BLESSURE: La mauvaise orientation de la prise de la pédale de commande peut mener au fonctionnement inverse de la table et blesser le patient.

DANGER DE BLESSURE: Il y a un point de pincement entre la section des pieds abaissée et la base lorsque la table est abaissée, inclinée à droite ou à gauche ou opérée en Trendelenburg inverse. Une coupure ou lésion sévère peut survenir si un doigt, orteil ou pied est pris dans ce point lorsque la table se trouve en mouvement.

ATTENTION: Soyez vigilants lorsque vous maniez la table en fonction INCLINAISON GAUCHE/INCLINAISON DROITE avec la section des pieds en position inférieure car celle-ci peut heurter le couvercle de la base.

POSITIONNEMENT DU PATIENT

(p. 2-10)

DANGER DE BASCULEMENT: La surcharge peut mener au basculement de la table et au blocage des parties mobiles. N'EXCEDEZ PAS les charges maximales opérationnelles.

- La puissance de levage est de 500 lb (227 kg). Donc, les fonctions <<TABLE UP>> et position de Trendelenburg/position inverse de Trendelenburg sont possibles en présence d'un poids (patient) de 500 lb sur la table.
- La capacité de manipulation du patient est de 400 lbs (181 kg). Cela veut dire qu'un patient de 400 lbs. peut être placé dans toute position de chirurgie standard.
- La capacité d'élévation des sections est de 300 lbs. (136 kg) situées à 13" (330 mm) du point de pivotage. Ceci est valable des deux fonctions ELEVATION DOS et ELEVATION PIEDS.

POSITIONNEMENT DU PATIENT

(p. 2-11)

DANGER DE BASCULEMENT: Pour avoir une réserve de stabilité adéquate, rappelez-vous que le bassin du patient doit toujours être situé sur le siège de la table. Le décalage du patient hors du centre du siège déstabiliserait la table et peut mener à la blessure du patient ou endommagerait le matériel si la table vient à être renversée.

SUPPORT DE TRANSFERT

(p. 2-12)

DANGER DE BLESSURE: L'usage incorrect de cet accessoire peut provoquer la blessure du patient OU du personnel ou des dégâts matériels. Suivez les instructions Ci-dessous pour éviter des dommages corporels ou matériels.

CASSETTE HOLDER

(p. 2-13)

CAUTION — Support the bottom of the cassette tray with one hand while inserting the cassette into the table. The handle is intended for sliding the cassette tray into the channel, not for lifting.

CAUTION — Do not flex the table or move the back or leg sections with the cassette holder in place or damage to the table and holder will occur. The channel may be used as long as there is clear access to insert or remove the cassette holder (e.g., cassettes may be inserted directly into the seat section of the table if the leg section is all the way up or down).

EMERGENCY PENDANT (Auxiliary Control) (p. 3-2)

CAUTION — When the emergency pendant is being used (drawer open), the main pendant should be disconnected. Damage to the controls could result if both pendants are operated simultaneously.

CLEANING AND DISINFECTION (p. 4-2)

CAUTION — Under no circumstances should steam or extremely hot water (over 150°F) be used to disinfect or clean the table. Elevated temperatures and unusually high humidity will weaken the nylon hydraulic lines and result in failure of the hydraulic system. Do not attempt to clean this table in automatic cart washing equipment. Use of high-pressure water guns could lead to an electrical malfunction and must be avoided.

CAUTION — The use of quaternary-type disinfectants without immediate rinsing may result, after an extended period of time, in corrosion of painted and plated table components. Rinse all surfaces which come into contact with this type of disinfectant and wipe dry.

CAUTION — Failure to thoroughly dry the surface after cleaning may result in rust.

CAUTION — DO NOT use iodophors; staining will result.

POIGNEE DE LA CASSETTE

(p. 2-13)

ATTENTION: Maintenez le fond du plateau de la cassette lorsque vous l'introduisez dans la table. La poignée sert à coulisser la cassette dans le compartiment et non pas à la soulever.

ATTENTION: Ne pliez pas la table et ne bougez pas les sections dos ou pieds lorsque la poignée de la cassette est en place de peur d'endommager la table ou la poignée. Le compartiment doit être parfaitement accessible afin de pouvoir introduire ou retirer la cassette (par exemple, la cassette peut être insérée directement dans le siège si la section des pieds se trouve en position relevée ou abaissée maximale.)

COMMANDE MOBILE D'URGENCE (p. 3-2)

ATTENTION — Lors de l'utilisation de la commande mobile d'urgence (tiroir ouvert), la commande mobile principale doit être débranchée. L'utilisation simultanée des deux commandes risque en effet d'endommager ces dernières.

NETTOYAGE ET DÉSINFECTION (p. 4-2)

ATTENTION: En aucun cas on n'utilisera de la vapeur ou de l'eau extrêmement chaude (au-dessus 150°F) pour désinfecter ou nettoyer la table. Les températures élevées et l'extrême humidité affaibliraient les tuyaux de nylon du système hydraulique et provoqueraient la défaillance de celui-ci. Ne lavez pas la table dans une installation de lavage automatique pour chariots. L'utilisation de jets d'eau à haute pression est à déconseiller car ils endommageraient le système électrique.

ATTENTION: L'utilisation de désinfectants quaternaires sans rinçage immédiat peut mener, à long terme, à la corrosion des parties peintes et plaquées de la table. Rincez toutes les surfaces en contact avec ce type de désinfectants et séchez.

ATTENTION: Les surfaces mal séchées peuvent rouiller.

ATTENTION: N'UTILISEZ PAS de désinfectants iodophores car ils peuvent laisser des taches.

ABOUT THIS MANUAL

This manual is furnished to provide information for the operation of the Shampaine 4900B and 4900E surgical tables.

The owner is responsible for training all operators and service personnel in the contents of this manual. This manual must be maintained and updated if revised information is provided by Getinge/Castle, Inc. throughout the useful service life of the product.

TECHNICAL DATA

Electrical Power Requirements	115 VAC (V-), 50/60 Hz, 4A, Single-Phase or 230 VAC (V-), 50/60 Hz, 2A, Single-Phase
Table Top	Radiolucent and conductive panels conform to 21 CFR subchapter J Radiation Control for Health and Safety Act of 1966
Dimensions	
Length	72" (86" with removable leg extension) 1829 mm (2184 mm with removable leg extension)
Width	19-3/4" (21-3/4" with side rails) 502 mm (552 mm with side rails)
Height	28" to 43" (711 mm to 1092 mm)
Weight	Approximately 700 lbs (318 kg)
Range of Motion	
Trendelenburg	Up to 25°
Reverse Trendelenburg	Up to 25°
Lateral Tilt	Up to 17° right or left
Back Section	Adjustable 30° below horizontal to 90° above horizontal
Kidney Elevator	Extendable up to 2-1/2" (64mm)
Leg Section	Adjustable 95° below horizontal to 70° above horizontal
Headrest	Adjustable from 120° below horizontal to 120° above in 15° increments
Longitudinal Slide	8" (203mm) total

Table Movement Limits



In addition to the specified limits above, interference will occur when certain functions are combined to position the table.

Position of Function	Resulting Function Limit
Full reverse Trendelenburg (25°)	Tilt limited to 10° right or left
Full tilt (17°) right or left	Reverse Trendelenburg limited to 20°
Back section up over 5°	Kidney elevator should not be operated
Kidney elevator fully extended	Back section limited to 85° elevation
Slide fully toward head section and leg section down 95°	Reverse Trendelenburg limited to 5°

Specifications are subject to change without notice.

GENERAL INFORMATION

GENERAL DESCRIPTION



WARNING – POSSIBLE EXPLOSION
HAZARD: DO NOT operate the table in the presence of flammable anesthetics. The Shampaine 4900B and 4900E are designed for use in non-hazardous anesthetizing locations.



WARNING – *This table is not to be used for patient transport purposes.*



NOTE *See page 2-10 for loading capacities.*

The Shampaine 4900B is a battery-powered, hydraulically positioned, full-function major surgical table. The Shampaine 4900E is mains-powered with battery backup (for operation of controls only).

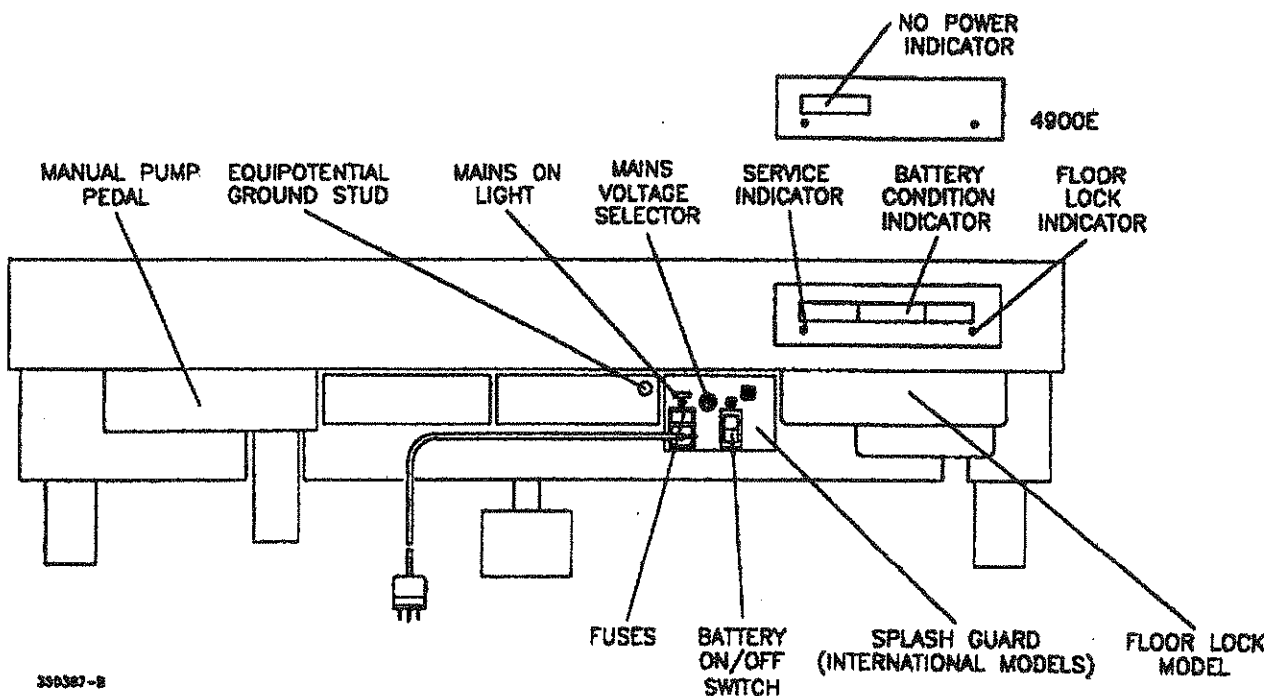
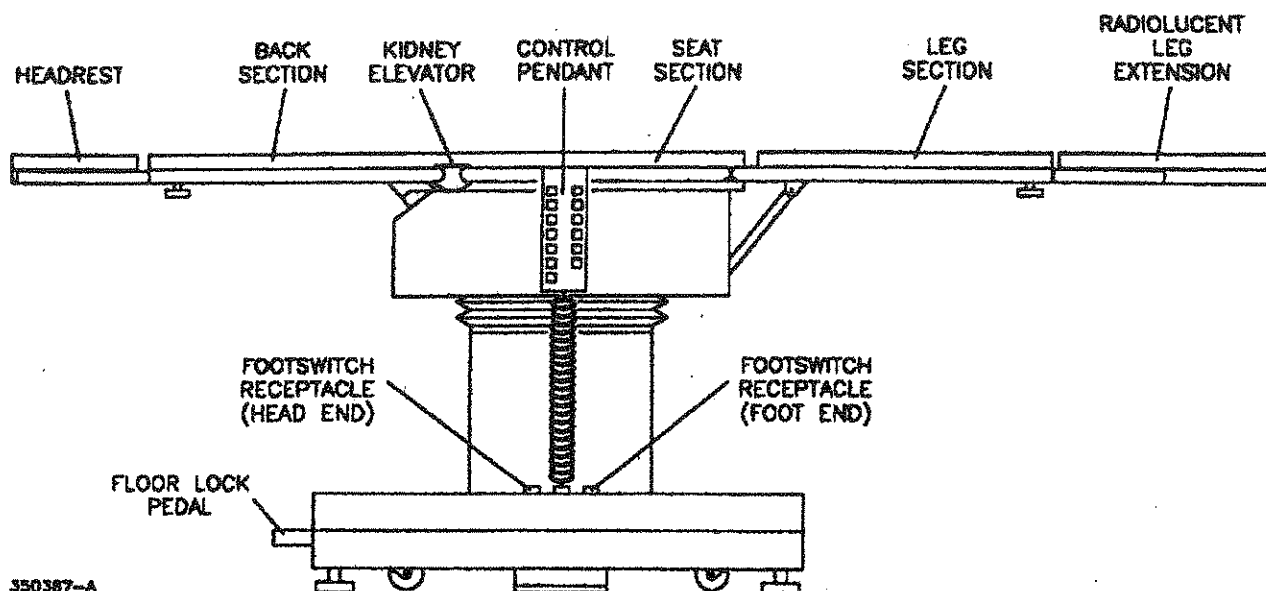
Table positioning is controlled by eight solenoid valve assemblies mounted in the base, remotely-operated by a hand-held control pendant. Hydraulic pressure is provided by an electric motor-driven pump or a manual foot pump.

The table top and leg extension surfaces are fabricated from electrically-conductive, radiolucent panels. Each table section has a cassette channel that can accommodate X-ray cassettes up to 14" x 17" (356 x 432 mm).

The table is portable and can be moved in any direction on four ball bearing swivel casters. Automatic self-stabilizing floor locks compensate up to 1/2" (13 mm) for unlevel floors, eliminating stability problems.

SHAMPAINE 4900B/4900E SURGICAL TABLE

1. General Information



SHAMPAINE 4900B/4900E SURGICAL TABLE

SHAMPAINE 4900B/4900E SURGICAL TABLE

1. General Information

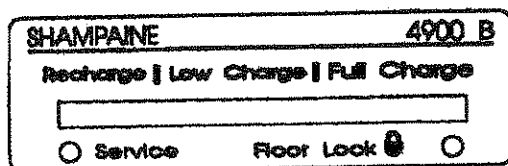
POWER SUPPLY (4900B)



WARNING — This table does not have a mains switch. Disconnect power at appliance inlet or unplug power cord.

The Shampaine 4900B is powered by two series-connected 1 2VDC, 24 Amp-Hour batteries. The table may be operated with or without the power cord connected to a mains outlet.

Battery condition is indicated by an LED bar graph divided into three sections: green, yellow and red. This display is operational whenever the batteries are charging, the pump is running, or a solenoid valve is operating. Only one color is activated at a time.



RECESS-1

BATTERY INDICATOR

When the green FULL CHARGE display is on, the batteries will provide power to the hydraulic pump, solenoid valves, and control pendant.

The yellow LOW CHARGE display indicates that the batteries have been discharged down to approximately 20% running capacity. The four yellow segments indicate the degree of charge left before the pump will be disabled.

When the red RECHARGE indicator is flashing, the pump has been disabled and the manual pump must be used to provide hydraulic power. In this condition, the batteries are only providing power to the solenoid valves and control circuits.



To prolong battery operation life, turn OFF the table when not in use (i.e., overnight).



Recharge the batteries once a week (i.e., over a weekend). The Battery ON/OFF switch must be ON to, recharge the batteries. The table can be used when the batteries are charging.



The emergency pendant and manual pump will still operate when the red RECHARGE indicator is glowing steadily.

While the batteries are charging, the yellow LOW CHARGE and green FULL CHARGE displays indicate the progression of the charging cycle. When all of the green segments are lit, the batteries are fully charged.

The Battery ON/OFF switch has a built-in circuit breaker that will disconnect the batteries from all circuits except the emergency pendant. In addition, the power cord connection is fused and the pump motor is protected by an internal fuse.



WARNING – ELECTRICAL HAZARD: Repeated tripping or fuse replacement indicates a ground fault or overload condition which must be investigated prior to further use of the table. The table will not operate reliably under such a condition and may be electrically unsafe.



In an emergency, the pump motor can be stopped by turning OFF the Battery ON/OFF switch.



See page 3-1 for explanation of SERVICE indicator.

SHAMPAINE 4900B/4900E SURGICAL TABLE

1. General Information

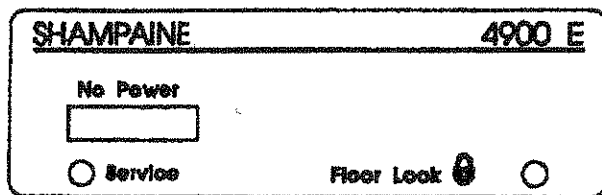
POWER SUPPLY (4900E)



WARNING – This table does not have a mains switch. Disconnect power at appliance inlet or unplug power cord.

The Shampaine 4900E is mains-operated. The MAINS ON light will be lit whenever mains power is present. If mains power is interrupted, the backup batteries will provide power for the control pendant and solenoid valves. The manual pump must be used to provide hydraulic power.

Batteries condition is indicated by the red NO POWER indicator. When mains power is interrupted, the NO POWER Indicator will flash to alert the operator that the batteries are in use.



BATTERY INDICATOR

When the NO POWER indicator is glowing steadily, the batteries are discharged and the control pendant cannot be operated.



NOTE The emergency pendant will still operate when the red NO POWER indicator is glowing steadily.

When AC power is restored, the NO POWER indicator will be turned off, all functions re-enabled, and the batteries will be recharged, if necessary.



NOTE The Battery ON/OFF switch must be ON to recharge the batteries.

The battery ON/OFF switch has a built-in circuit breaker that will disconnect the batteries from all circuits except the emergency pendant. In addition, the power cord connection is fused and the pump motor is protected by an internal fuse.



WARNING – ELECTRICAL HAZARD: Repeated tripping or fuse replacement indicates a ground fault or overload condition which must be investigated prior to further use of the table. The table will not operate reliably under such a condition and may be electrically unsafe.



NOTE In an emergency, the pump can be stopped by unplugging the power cord.



NOTE See page 3-1 for explanation of the SERVICE indicator.

FLOOR LOCK SYSTEM

The floor lock system consists of three hydraulically-operated floor feet. The floor feet are controlled by simultaneous operation of the FLOOR LOCK pedal and the control pendant POWER (START) bar. When the floor feet are fully extended, the green FLOOR LOCK indicator will glow steadily.

When the feet are retracted, the table rests on four swivel casters. Make sure the feet are fully retracted, to provide adequate floor clearance, before moving the table.



When the red battery indicator is flashing or steady (pump is disabled), the floor lock feet can be unlocked by using the manual pump in combination with the FEET UNLOCK switch on the emergency pendant. The MANUAL PUMP pedal is on the left side of the base on the head end.

Alternate Method: The floor lock feet can be locked (or unlocked) by pressing the POWER (START) bar while pressing (or lifting up on) the FLOOR LOCK pedal, then operating the manual foot pump. The FLOOR LOCK pedal will "latch" electronically allowing the operator to pump the MANUAL PUMP pedal without holding down the FLOOR LOCK pedal.

SHAMPAINE 4900B/4900E SURGICAL TABLE

1. General Information

CONTROL PENDANT

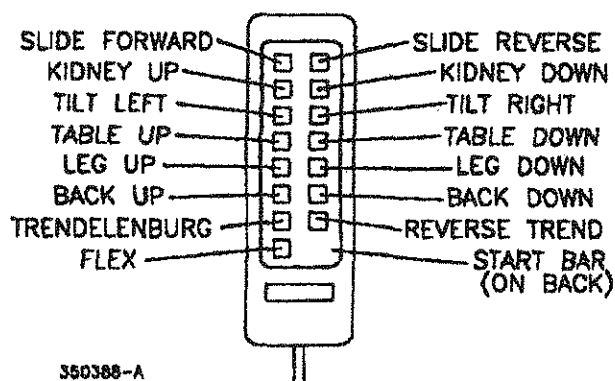
All table functions, except the floor locks, are controlled by the hand-held pendant. The floor locks must be engaged to enable the pendant table functions. This ensures that the table is locked to the floor when the table is being positioned.

The table has three receptacles on the base cover to the right of the column shield. The control pendant plugs into the center receptacle.



WARNING - Unwanted movement may occur if a patient positioning switch remains depressed after the POWER (START) bar is released. Always release both the POWER (START) bar and patient positioning switch after desired table position is achieved.

Each table function requires that the patient positioning switch and the START bar be actuated simultaneously. This feature prevents accidental movement of the table during surgery. The patient positioning switches are grouped on the front of the pendant. The START bar is located on the back of the pendant.



CONTROL PENDANT

Patient position functions are as follows:

- SLIDE FORWARD/SLIDE REVERSE translates the entire table top 8" (203 mm) with respect to the lift column.
- KIDNEY UP/KIDNEY DOWN raises the kidney elevator 2-1/2" (64 mm) above the table surface or retracts it.
- TILT LEFT/TILT RIGHT tilts the entire table top about the head to foot axis up to 17° left or right.
- TABLE UP/TABLE DOWN elevates/descends the entire table top to any position from 28" to 43" (711 to 1092 mm) above the floor.
- LEG UP/LEG DOWN raises the leg section 70° above or lowers it 95° below horizontal.
- BACK UP/BACK DOWN raises the back section 90° above or lowers it 30° below horizontal.
- TRENDELBURG/REVERSE TREND tilts the entire tabletop about the transverse axis, positioning the head of the table 25° below or above horizontal.
- FLEX (main pendant only) lowers the back section with reverse Trendelenburg to form an inverted vee of 150°.



In between uses, the control pendant should be hooked in place on the side rail with the connecting cord away from pinch points.

SHAMPAINE 4900B/4900E SURGICAL TABLE

1. General Information

MANUAL PUMP

The manual pump is used to supply hydraulic power when:

- the 4900B is in solenoid-only mode (red RECHARGE indicator is flashing).
- the 4900E is operated in battery backup mode.
- the emergency pendant is used.

The MANUAL PUMP pedal is located on the left side of the base on the head end.

EMERGENCY PENDANT (Auxiliary Control)



WARNING – Unwanted movement will occur if the control pendant is operated simultaneously with the emergency pendant. To ensure patient safety, the control pendant should be removed from the base receptacle before using the emergency pendant.

An auxiliary control pendant is provided for emergency use. It can be used if the main pendant control becomes inoperative. The emergency pendant is yellow to avoid confusion between it and the main control pendant.

The emergency pendant is located in a drawer, marked AUXILIARY CONTROL, on the left side of the base. When the drawer is open, the control circuit automatically switches from the main pendant to the emergency pendant. The emergency pendant bypasses the main control circuit and operates the solenoid valves. Hydraulic power is supplied by the manual pump.



The emergency pendant does not have the FLEX function. It is replaced by the FEET UNLOCK function. This button is used to raise the floor feet to mobilize the table in an emergency.

FOOTSWITCH (OPTIONAL)

A footswitch control is available for use in OB/GYN, cystoscopy, and endo urology procedures where the surgeon is seated at the pelvic end of the patient.

Footswitch control functions include:

- TRENDLENBURG/REVERSE TREND
- TABLE UP/TABLE DOWN
- TILT LEFT/TILT RIGHT (with respect to surgeon's left or right)

See page 2-9 for a description of the footswitch control.

HEADREST

The table headrest can be rotated from 120° below to 120° above horizontal in 15° increments. The headrest can be installed at either end of the table.

RADIOLUCENT TABLE TOP

The table top is fabricated from a radiolucent, conductive material conforming to the Radiation Control for Health and Safety Act of 1968 (21 CFR Subchapter J). To prevent discoloring, this material should be kept clean and dry.



CAUTION – Protect the top and bottom surfaces from nicks and scratches. Scratches more than .005 inch (127 microns) deep may appear on X-rays. Damaged or scratched panels should be replaced if X-ray quality is affected.



The removable leg extension is also radiolucent.

PADS

The table top is fitted with a matching set of conductive, radiolucent pads which conform to NFPA 99. Velcro tapes hold the pads in place. If replacement becomes necessary, make sure that Shampaine pads are used to ensure X-ray compatibility. Cleaning instructions are outlined in Section 4.



If the patient is reversed on the table top, the seat and back section pad can be reversed to close the perineal cutout in the seat section and provide an opening above the secondary perineal cutout located in the back section.

SHAMPAINE 4900B/4900E SURGICAL TABLE

1. General Information

INSTALLATION REQUIREMENTS

ELECTRICAL POWER REQUIREMENTS



This surgical table has been designed to be connected to circuits installed in accordance with NFPA 70 – National Electrical Code. The user should also be familiar with Chapter 9 of NFPA 99 – Health Care Facilities (1990). Consult these references if you have any doubt about the compliance of the user's maintenance program or electrical system with code requirements.

The 4900E and the battery charging circuit of the 4900B require a 115VAC (V~), 4A, 50/60 Hz or 230 VAC (V~), 2A, 50/60 Hz single-phase power source. The table will draw 4A under full load and should be connected to a dedicated branch circuit with an overload protection device rated at not more than 20A.

The table is provided with a 14 ft. (4.27 m), 16 AWG, three-conductor power cord terminated with a hospital grade, three-prong plug. Attachment of a plug of alternate design, if required, is the responsibility of the customer.



Although the 4900E has a backup battery system, the manual pump must be used to provide hydraulic power under this condition. The 4900B is completely battery-operated and only requires mains power for battery charging.

ENVIRONMENTAL AND STORAGE REQUIREMENTS

The table is designed to be operated within an ambient temperature range of 50 to 104°F (10 to 40°C), relative humidity range of 10% to 90%, and atmospheric pressure from 700 to 1060 hPa.



CAUTION – Do not expose the table to steam or heat sources, or place the table where it may be exposed to unusually high temperatures.

CAUTION – Do not clean the table with a high-pressure watergun, as an electrical malfunction could occur.

Transport and storage requirements are a temperature range of -40 to 158°F (-40 to 70°C), relative humidity of 10 to 100%, and atmospheric pressure from 500 to 1060 hPa.



Before storing the table, turn OFF the Battery ON/OFF switch to eliminate unnecessary battery drain.

Large temperature changes that occur in unheated or non-air-conditioned spaces may result in temporary twisting of the back and leg sections. If this occurs, allow the table to reach room temperature to see if the twisting corrects itself.

OPERATING INSTRUCTIONS

PINCH POINTS



WARNING — Severe cutting or crushing injury may occur if any part of a patient or OR staff member is in a table pinch point when the table function movement is initiated.



CAUTION — Damage to the table or object may occur if any foreign object, accessory, clamp, etc., is in a table pinch point when a table function movement is initiated.

Due to the variety of table positions attainable with the 4900B and 4900E tables, pinch or crushing points exist. The OR staff must be trained to ensure that fingers, hands, feet, elbows and other body points of a patient or OR personnel are not inserted into pinch points when the table is operated.

Pinch points include but are not limited to:

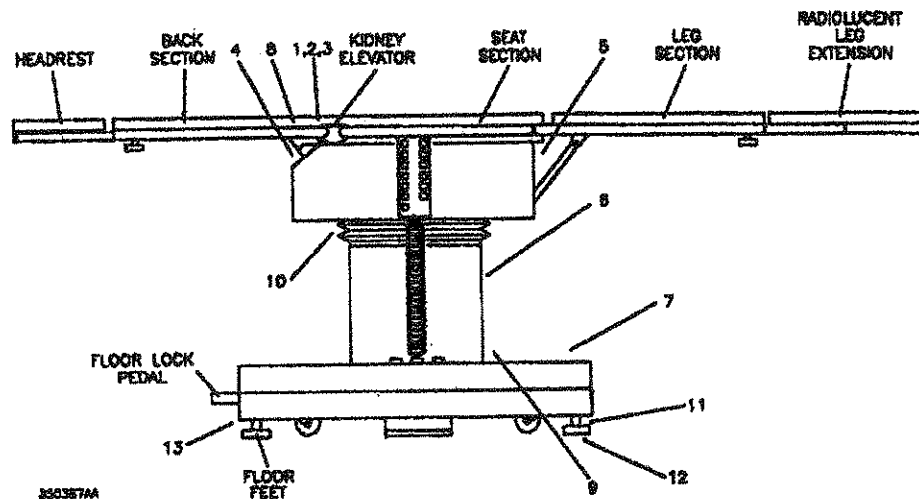
- 1 kidney elevator to seat channels
- 2 kidney elevator to seat top
- 3 kidney elevator to back section

- 4 back section to side shields
- 5 leg section to side shields
- 6 leg section to column shield
- 7 leg section to base cover
- 8 back section link to seat channel
- 9 column shields to base cover
- 10 side shields to column shields (in tilt)
- 11 floor feet to base cover
- 12 floor feet to floor
- 13 base cover to floor

This list is not all inclusive because pinch points can be created by the attachment of accessories. Always check that the patient and staff are clear of all pinch points before moving the table or while the table is in motion.

PATIENT ORIENTATION

Left and right and head and foot refer to the patient's left and right and head and foot when supine on the table with their head at the end of the table with the FLOOR LOCK pedal.



PINCH POINTS

SHAMPAINE 4900B/4900E SURGICAL TABLE

2. Operating Instructions

NORMAL OPERATION



CAUTION – Do not stand on the base cover. Damage to table or operator injury may result.

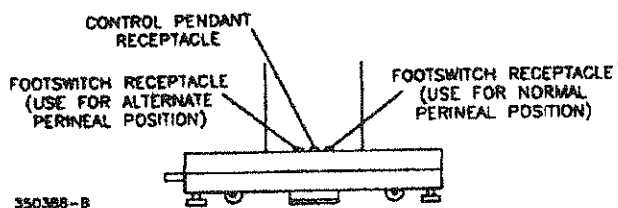
SET UP

1. Plug the control pendant into the center receptacle on the base cover to the right of column shield.



CAUTION – Keep the pendant plugged in at all times to prevent entrance of fluids and contamination into the receptacle. This could cause the table to malfunction.

The plug and receptacle each have an insert position key. Rotate the plug until the keys in the mating parts begin to noticeably engage and then turn the knurled lock ring clockwise until a click is felt.



CONTROL PENDANT AND FOOTSWITCH RECEPTACLES

2. If the footswitch will be used, plug it into the FOOT SWITCH receptacle closest to the end where the surgeon will be seated.



WARNING – Improper orientation of the footswitch plug may result in reverse functioning and patient injury.

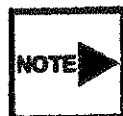


CAUTION – Always replace the protective cap on the receptacle when the footswitch is not in use. Entrance of fluids and contamination can cause table malfunction.

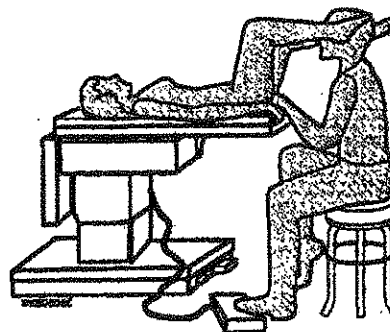


CAUTION – If excessive fluid drainage is anticipated, the footswitch should be protected by wrapping it with a clear disposable plastic cover.

The footswitch control provides the desired patient orientation whether in the normal perineal position or the alternate perineal position.



Once attached as shown, the actuation of **TRENDELENBURG** will always lower the patient's head, and **TILT LEFT** and **TILT RIGHT** will move the table relative to the surgeon's left and right.

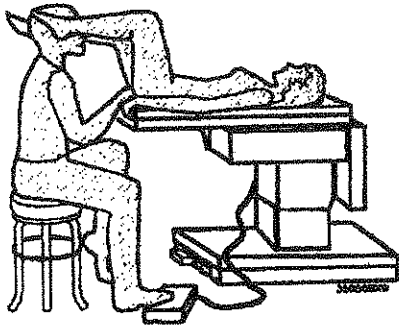


NORMAL PERINEAL POSITION

SHAMPAINE 4800B/4900E SURGICAL TABLE

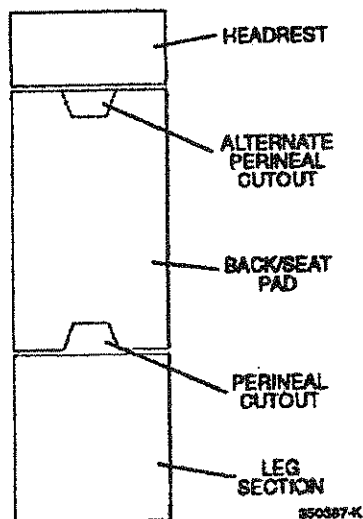
2. Operating Instructions

In the alternate perineal position, the patient is reversed with the pelvis positioned on the back section over the alternate perineal cutout.



ALTERNATE PERINEAL POSITION

3. If the alternate perineal position will be used, reverse the back/seat pad so that the cutout in the back section is exposed.



LOCATION OF PERINEAL CUTOUTS

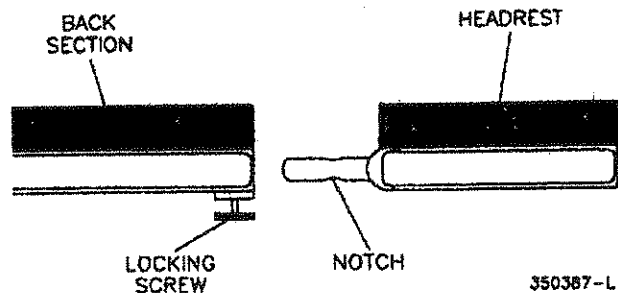
4. Install the headrest. The headrest can be installed at either end of the table. The head end is normally the end of the table with the FLOOR LOCK pedal.



WARNING - DO NOT use the headrest as a table extension or mount lithotomy holders to the side rail. Overloading of this type can fracture the ratchet pawls, resulting in failure of the headrest. The headrest should only be used for supporting the head.



The headrest side rails will hold standard accessory clamps, but are not designed to hold crutch sockets or Clark sockets.



HEADREST

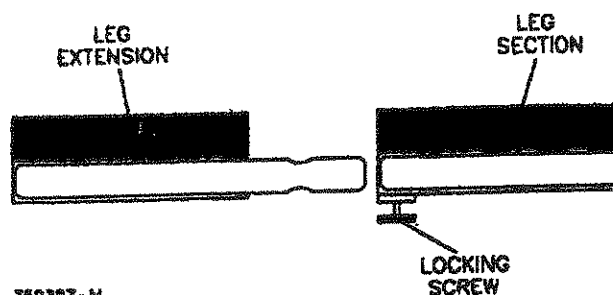
Loosen the locking screws located on each side of the table on the underside of the back section or leg section. Slide the headrest into the dovetail slots until the notches are engaged, then tighten the locking screws.

To remove the headrest, loosen the locking screws and slide the headrest out of the dovetail slots.

SHAMPAINE 4900B/4900E SURGICAL TABLE

2. Operating Instructions

5. Install the leg extension if required. The leg section can be installed at either end of the table. Follow the same procedure as for the headrest.



LEG EXTENSION

6. Install accessories as required. See manufacturer's instructions.

POWER ON (4900B)

Turn ON the Battery ON/OFF switch. Depress the FLOOR LOCK pedal and press the pendant POWER (START) bar and observe the battery condition indicator:

- If the green FULL CHARGE display is lit, the batteries are charged and the table is ready for operation.
- If the yellow LOW CHARGE display is lit, the batteries are low and should be recharged before using the table. Plug the power cord into a mains outlet to charge the batteries.
- If the red RECHARGE indicator is flashing, the batteries are discharged and pump is disabled. Plug the power cord into a mains outlet to charge the batteries.
- If the red RECHARGE indicator is glowing steadily, the batteries are fully discharged and the table cannot be operated. Plug the power cord into a mains outlet to recharge the batteries.

Plug the power cord into a mains outlet. The MAINS ON light on the power entry module should light.



The table can be operated with or without the power cord connected to a mains outlet. Plug in the power cord if the batteries need recharging. The table may be operated while the batteries are charging.



To prolong battery life, plug in the table and let it charge overnight. The Battery ON/OFF switch must be ON to recharge the batteries.

For long-term storage (more than 5 days), turn OFF the Battery ON/OFF switch.

POWER ON (4900E)

Plug the power cord into a mains outlet and turn ON the Battery ON/OFF switch. The MAINS ON light on the power entry module should light.

Unplug the power cord to check the battery backup system. The red NO POWER display should be flashing, indicating that mains power has been interrupted. If the red NO POWER display is glowing steadily, the batteries need to be recharged.

Plug the power cord back in. The NO POWER indicator should go out.

SHAMPAINE 4900B/4900E SURGICAL TABLE

2. Operating Instructions

FLOOR LOCK SYSTEM



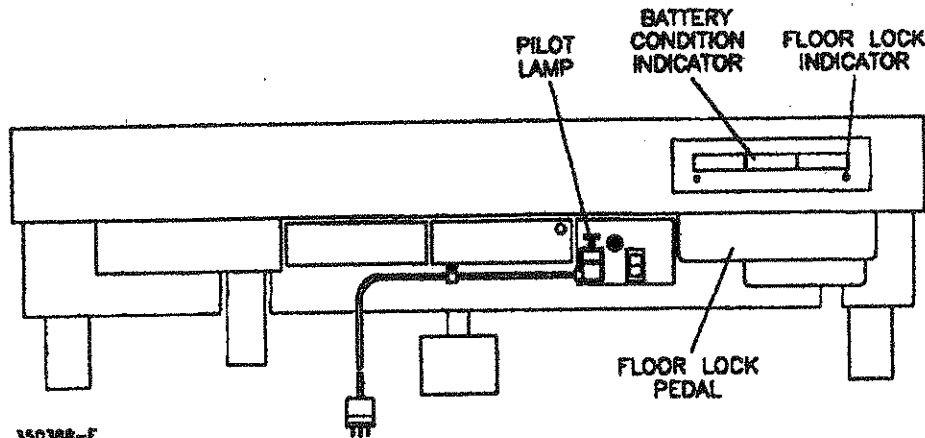
WARNING - For maximum stability, the table should always be locked to the floor whenever a patient is on the table, or being transferred to or from the table.

To lock the table to the floor, depress the FLOOR LOCK pedal while pressing the POWER (START) bar on the back of the pendant. When the floor feet are fully extended, the green FLOOR LOCK indicator will glow steadily.



To unlock the floor feet and mobilize the table, place your toe under the FLOOR LOCK pedal and raise it upward while pressing the pendant POWER (START) bar. The FLOOR LOCK indicator will go out when the table is unlocked.

It is not necessary to hold down or lift up the FLOOR LOCK pedal until the feet are completely extended or retracted. Once the FLOOR LOCK pedal is actuated, a timer circuit will automatically operate the pump and solenoid valves until the feet are fully extended or retracted.



350388-E

BASE COMPONENTS

SHAMPAINE 4900B/4900E SURGICAL TABLE

2. Operating Instructions

CONTROL PENDANT

All table functions, except the floor locks, are controlled by the hand-held pendant. Each pendant function requires that two switches be actuated simultaneously. This feature prevents accidental movement of the table during surgery. The patient positioning functions are grouped on the front of the pendant; the POWER (START) bar is located on the back.



The floor lock system must be engaged to enable the pendant table functions.

To operate the table, select the desired function and direction of movement by pressing the appropriate switch on the front of the pendant while simultaneously pressing the POWER (START) bar on the back. To stop the table movement, release the function switch first.

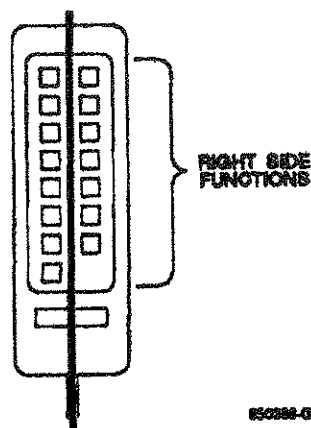


CAUTION - Storage of clamps, accessories, etc., on the base cover may result in damage to lift column shields and prevent proper elevation/descent of the table.

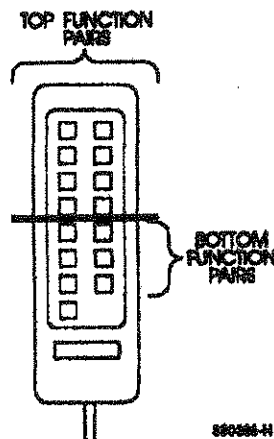
Override Conditions

If two function switches are pressed simultaneously, the following will occur:

- In any pair of opposing functions, the right side function will override the left side function. For example, REVERSE TREND will override TRENDELENBURG.

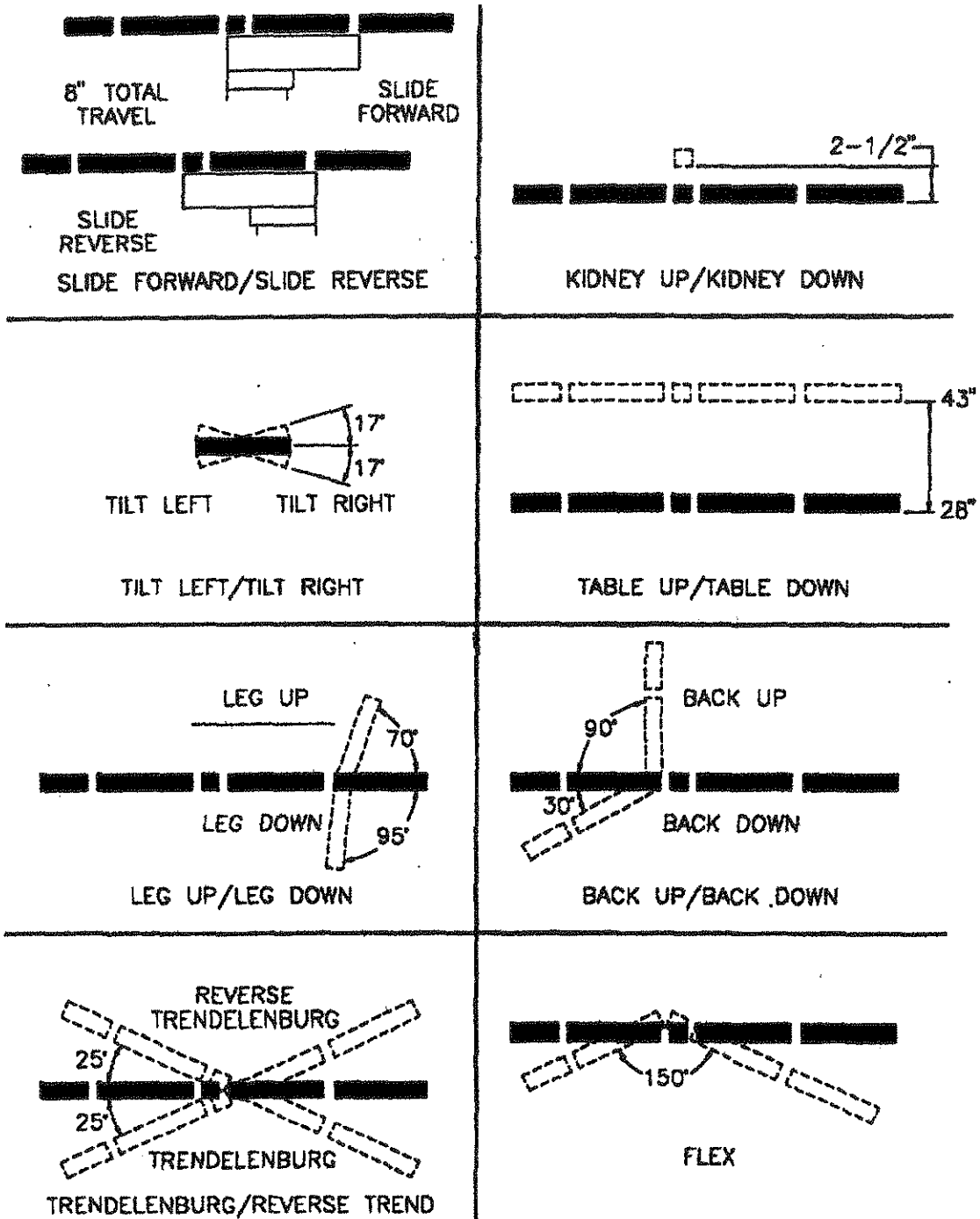


- The bottom three function pairs and FLEX will override the top four function pairs. For example, LEG DOWN will override TABLE DOWN.



- TRENDELENBURG or REVERSE TREND will override LEG UP or LEG DOWN.
- SLIDE FORWARD or SLIDE REVERSE will override KIDNEY UP or KIDNEY DOWN.
- TABLE UP or TABLE DOWN will override TILT LEFT or TILT RIGHT.

SHAMPAINE 4900B/4900E SURGICAL TABLE
2. Operating Instructions



350388-F

CONTROL PENDANT FUNCTIONS

SHAMPAINE 4900B/4900E SURGICAL TABLE

2. Operating Instructions

Simultaneous Functions

The following functions may be used in combination:

- TRENDLENBURG or REVERSE TREND and BACK DOWN.
- BACK DOWN or BACK UP and LEG DOWN or LEG UP.
- KIDNEY DOWN or KIDNEY UP and TILT RIGHT or TILT LEFT.
- KIDNEY DOWN or KIDNEY UP and TABLE DOWN or TABLE UP

Lockout Conditions

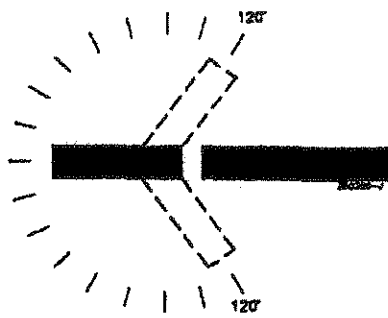
- If the FLOOR LOCK indicator is not lit, the main control pendant will not operate. Depress the FLOOR LOCK pedal and control pendant POWER (START) bar to lower the floor lock feet.
- If the AUXILIARY CONTROL drawer is open, the main control pendant will not operate. Close the AUXILIARY CONTROL drawer, or use the emergency pendant to operate the table.
- If the red RECHARGE (NO POWER) indicator is flashing, the hydraulic pump will not operate. Use the MANUAL PUMP pedal to provide hydraulic power.
- If the red RECHARGE (NO POWER) indicator is glowing steadily, the main control pendant will not operate. Use the emergency pendant to operate the table. Recharge the table as soon as possible.

HEADREST



WARNING – DO NOT use the headrest as a table extension or mount crutches or lithotomy holders to the side rail. Overloading of this type can fracture the ratchet pawls, resulting in failure of the headrest and patient injury. The headrest should only be used for supporting the head.

The table headrest can be latched in any position from 120° below to 120° above horizontal in 15° increments.



HEADREST



CAUTION – Support the headrest while lowering as it will fall freely when the ratchet is released.

To raise or lower, release the ratchet by pulling out on the release bar on the underside of the headrest.



The headrest side rails will hold standard accessory clamps, but are not designed to hold crutch sockets or Clark sockets.

FOOTSWITCH (OPTIONAL)



WARNING – Improper orientation of the footswitch plug may result in reverse functioning and patient injury.

To operate the table, select the desired function and direction of movement by depressing the appropriate side of the rocker switch. Depressing the opposite side of the rocker will reverse the direction of travel. Releasing the rocker switch will stop table movement.



WARNING – A pinch point exists between the lowered leg section and the base cover when the table top is lowered, tilted right or left, or moved in reverse Trendelenburg. Severe cutting or crushing injury may occur if a finger, toe, foot, etc., is in this pinch point when the table function is initiated.



CAUTION – Take care when using the TILT LEFT/TILT RIGHT function with the table leg section in the down position to avoid colliding with the base cover.



Once attached as shown on page 2-2 and 2-3, the actuation of TRENDelenburg will always lower the patient's head, and TILT LEFT and TILT RIGHT will move the table relative to the surgeon's left or right.

To operate the footswitch control, the floorlocks must be engaged.

It is not necessary to remove the pendant control when operating the footswitch control.

The footswitch will provide the desired patient orientation whether in the normal perineal position or the alternate perineal position (patient's pelvis positioned over cutout in back section). TRENDelenburg and REVERSE TREND will be with respect to patient's head; TILT LEFT and TILT RIGHT will be with respect to surgeon's left or right.

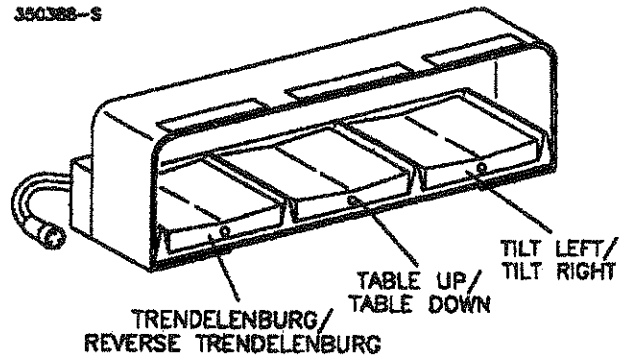
Plug the footswitch into the FOOT SWITCH receptacle closest to the end of the table where the surgeon is seated.

Simultaneous operation of the footswitch and control pendant will not cause a table malfunction, except that if opposing functions such as TABLE UP and TABLE DOWN are actuated simultaneously, one function will always supersede its opposing function. If more than one person is operating the table, they should be aware of this to avoid a conflict in the procedure.



To avoid inadvertent actuation, the footswitch should be disconnected for procedures that do not require its use and the cap for the footswitch connector on the base should be installed to prevent entry of foreign materials and fluids.

350388-S



FOOTSWITCH

The footswitch will not operate if:

- the 4900B or 4900E is in solenoid only mode (red RECHARGE [NO POWER] indicator flashing)
- the auxiliary drawer is open
- the batteries are discharged (RECHARGE [NO POWER] indicator is on steady)

SHAMPAINE 4900B/4900E SURGICAL TABLE

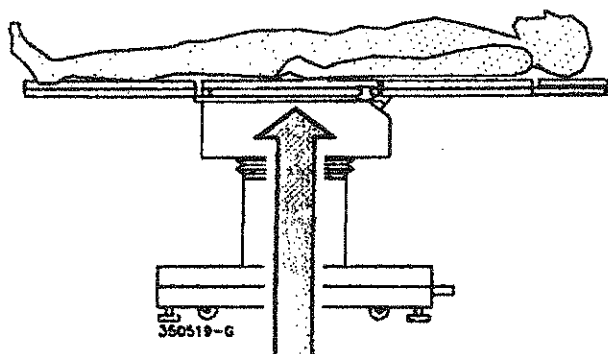
2. Operating Instructions

PATIENT POSITIONING



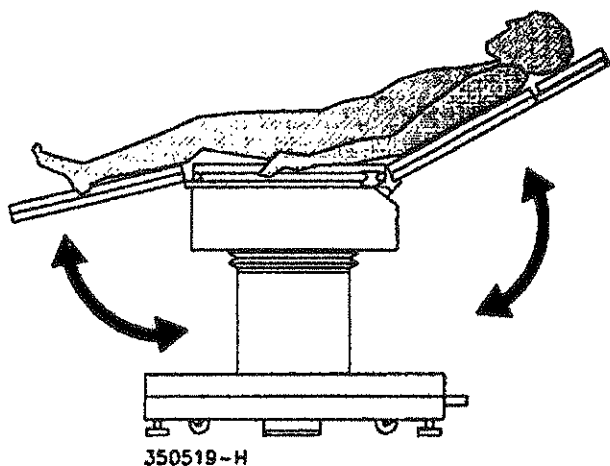
WARNING – Overloading may result in tipping of the table or failure of the table sections to move. **DO NOT** exceed these maximum loads in service.

Patient lifting capacity is 500 lbs. (227 kg). This means the TABLE UP and Trendelenburg/Reverse Trendelenburg functions will operate with a 500 lb. patient positioned on the table.



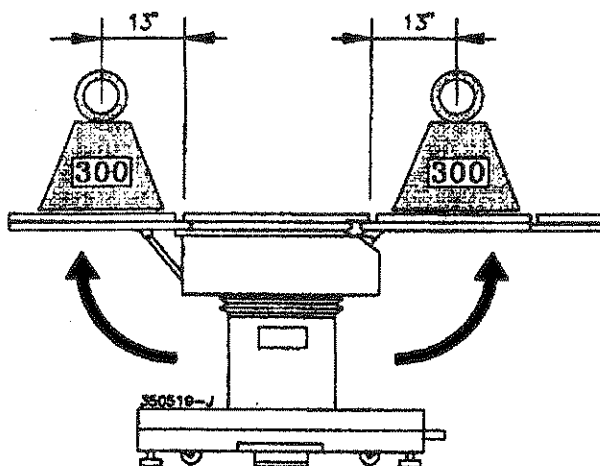
PATIENT LIFTING CAPACITY

Patient articulation capacity is 400 lbs. (181 kg). This means that a 400 lb. patient can be moved into any of the standard procedural positions.



PATIENT ARTICULATION CAPACITY

Section lift capacity of 300 lbs. (136 kg) located 13 in. (330 mm) from the pivot point. This applies to both the BACK UP and LEG UP function.



SECTION LIFTING CAPACITY

SHAMPAINE 4900B/4900E SURGICAL TABLE

2. Operating Instructions



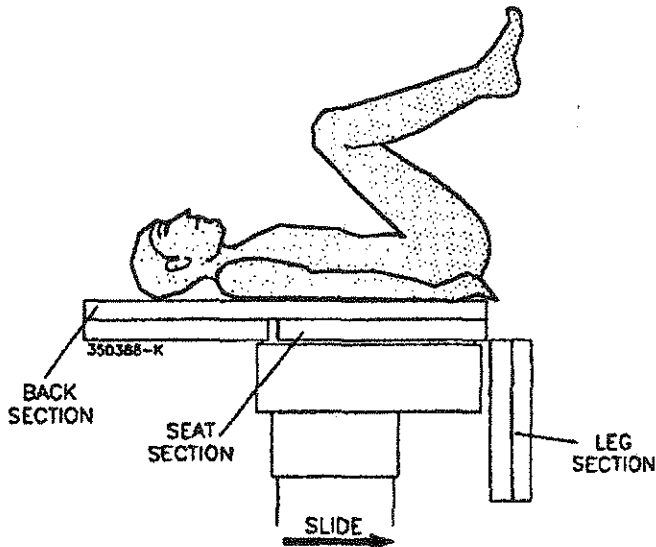
WARNING - POSSIBILITY OF TIPPING: To maintain an adequate reserve of stability, remember that the patient's pelvis should always be located over the seat or back section of the table. Cantilevering the patient beyond the normal range of the table will impair stability and result in patient injury and equipment damage if the table is upset.

When the patient is placed in lithotomy position on the seat section, the following precautions must be followed to ensure safety and stability:

- The table must be securely locked to the floor and not mobilized while the patient is in the lithotomy position.
- Use caution when raising the leg section while the patient is in this position.

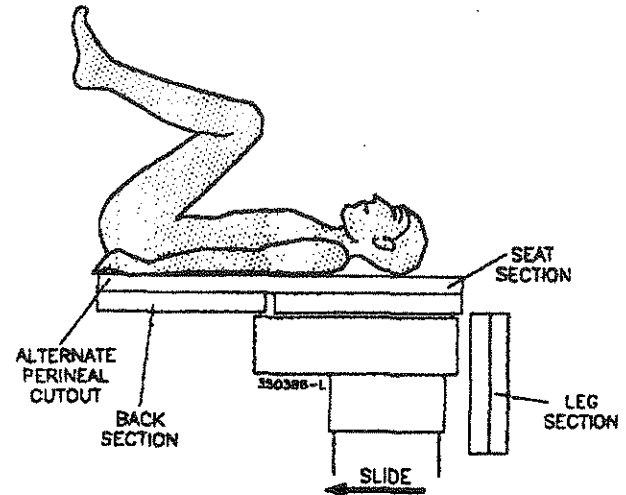


The tabletop may be slid towards the foot end of the table (full slide forward) without compromising stability.



NORMAL PERINEAL POSITION

For OB/GYN, cystoscopy, and endo/urology procedures, using a C-arm, the patient may be reversed with the pelvis positioned on the back section over the alternate perineal cutout.



REVERSE PERINEAL POSITION

The following precautions must be followed to ensure safety and stability:

- The table should be securely locked to the floor and not mobilized while the patient is on the back section.
- Use the transfer leg support (see p. 2-12) to temporarily support the patient's legs prior to and after lithotomy positioning on the back section.



In normal orientation, the tabletop may be slid towards the head end of the table (full slide reverse) for increased C-arm access without compromising stability.

TABLE MOVEMENT LIMITS

Interference will occur when certain functions are combined to position the table. See the Movement Limits chart on page x for resulting function limits.

SHAMPAINE 4900B/4900E SURGICAL TABLE

2. Operating Instructions

TRANSFER SUPPORT (OPTIONAL)

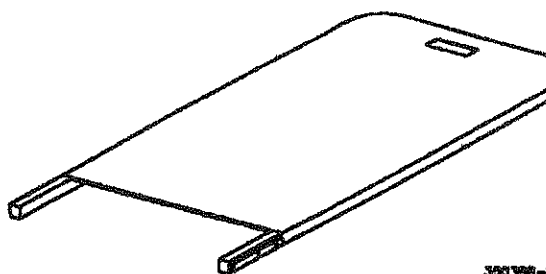
The transfer leg support is used to temporarily support the patient's legs prior to and after lithotomy positioning on the back section.



WARNING – Patient or OR personnel injury and equipment damage may result from the improper use of this accessory. Follow the guidelines below to prevent injury or damage.

- This accessory is for use only on Shampaine 4000 Series surgical tables. Use on any other tables may result in decreased table stability and tipping.
- The floor locks must be locked at all times whenever the leg support is in use.
- The table top must be horizontal and slid completely to the foot end of the table.
- Use of the leg support in other positions or orientation could result in decreased table stability or disengagement of the leg support.
- Use this accessory for temporary support of the legs only. The fabric sling is unpadded and not intended for continuous patient support. Pressure sores and tissue damage may result from prolonged support use.
- Floor locks must remain locked at all times whenever the leg support is in use. Maximum weight load on the leg support is 80 lbs. (36 kg) distributed along the support. Do not reverse the patient to support the upper body on the leg support as this weight load will be exceeded. Overloading can result in damage to the table or accessory, table instability and tipping.
- Do not sit on the leg support when installed.

- Inspect the leg support every six months, or every three months if used daily. During this inspection, check that the latch bars move freely and properly engage the dovetail slots on the table back section. Check that the four fasteners retaining the latch bars and their four acorn lock nuts, are tight. (These fasteners are under the black plug caps on the support bars.) Carefully inspect the fabric sling for damage, seam integrity, tears and abrasion. Replacement slings are available through the Getinge/Castle, Inc. customer service department.
- Refer to page 2-10 for additional instructions regarding the safe placement of patients in lithotomy position on the back section.



350368-U

TRANSFER SUPPORT

Install the transfer support as follows:

1. Remove the headrest.
2. Insert the leg support in the back section channels. The latch bars must engage dovetail slots on table.
3. Tighten section lock screws to secure the support in the table.
4. Check for retention.

CASSETTE HOLDER

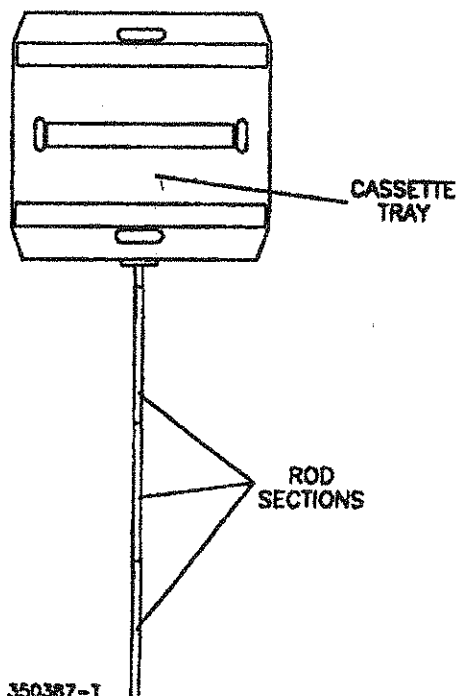


CAUTION – Support the bottom of the cassette tray with one hand while inserting the cassette into the table. The handle is intended for sliding the cassette tray into the channel, not for lifting.

The table has a cassette channel that runs the full length of the table, head to foot. A cassette holder is provided with the table for inserting, locating, and removing X-ray cassettes up to 14" X 17" (356 x 432 mm) anywhere in the channel.



CAUTION – Do not flex the table or move the back or leg sections with the cassette holder in place or damage to the table and holder will occur. The channel may be used as long as there is clear access to insert or remove the cassette holder (e.g., cassettes may be inserted directly into the seat section of the table if the leg section is all the way up or down).



CASSETTE HOLDER

NOTES

CONDITIONAL OPERATION

ELECTRICAL POWER FAILURE (4900B)

Since the Shampaine 4900B is battery-operated, table operation will not be affected by loss or interruption of mains power.

Under normal operation, fully-charged batteries should supply power to the control circuit for several weeks.

ELECTRICAL POWER FAILURE (4900E)

If power is interrupted, the backup battery will provide power for the solenoid valves as long as the red NO POWER indicator display is flashing. In this condition, the manual pump must be used to provide hydraulic power.

Under battery operation, fully-charged batteries should supply power to the control circuit for at least one week.

SERVICE INDICATOR

If the SERVICE indicator below the battery condition display is lit, turn OFF the Battery ON/OFF switch, unplug the table, and call for authorized service.

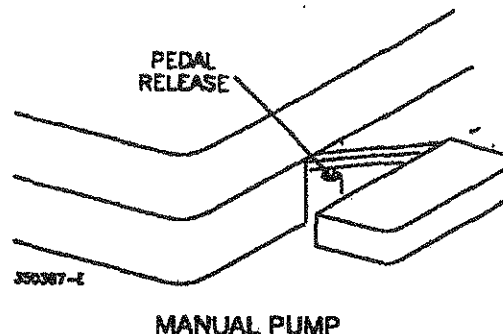
Do not operate the table until the problem is corrected.

MANUAL PUMP

The manual pump is used to provide hydraulic power under the following conditions:

- When the 4900E is operated using the backup batteries.
- When the red RECHARGE (NO POWER) display of the battery status indicator is flashing.
- When the emergency pendant is used.

The MANUAL PUMP pedal is located to the left at the head end of the base cover. To use this foot-operated pump, pull the MANUAL PUMP pedal out until it snaps into the extended position.



The floor lock system must be engaged to enable the control pendant.

To position the table, press the desired function key on the pendant and operate the manual pump. For best results, depress the pump pedal completely, making full strokes, at the rate of about one stroke per second.

SHAMPAINE 4900B/4900E SURGICAL TABLE

3. Conditional Operation



It is not necessary to press the pendant POWER (START) bar when the manual pump is used. The POWER (START) bar is needed to "latch in" the footswitch function, however.

To retract the pedal in the stored position, momentarily pull the pedal release and push the pedal in.

The footswitch can also be operated with the manual pump. It is not necessary to have another person operate the foot pump as the footswitch function is "latched in."

EMERGENCY PENDANT (Auxiliary Control)



CAUTION — When the emergency pendant is being used (drawer open), the main pendant should be disconnected. Damage to the controls could result if both pendants are operated simultaneously.

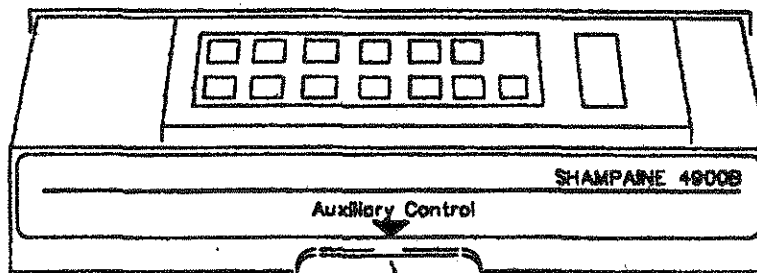
A battery-operated auxiliary control pendant is provided for emergency use. The emergency pendant can be used if the main pendant control circuit becomes inoperative.

The emergency pendant is located in a drawer, marked AUXILIARY CONTROL, on the left side of the base. To remove the emergency pendant, pull the finger pull tab and slide the drawer open.

The emergency pendant is yellow to avoid confusion between it and the main control pendant. When the drawer is open, the control circuit automatically switches from the main pendant to the emergency pendant. The emergency pendant bypasses the main control circuit and operates the hydraulic solenoid valves directly from the batteries. Hydraulic power is supplied by the manual pump.

TO UNLOCK THE FLOOR FEET WHEN POWER IS NOT AVAILABLE:

1. Extend the manual pump pedal.
2. Remove the emergency pendant.
3. Press the FEET UNLOCK button on the emergency pendant while operating the manual pump.



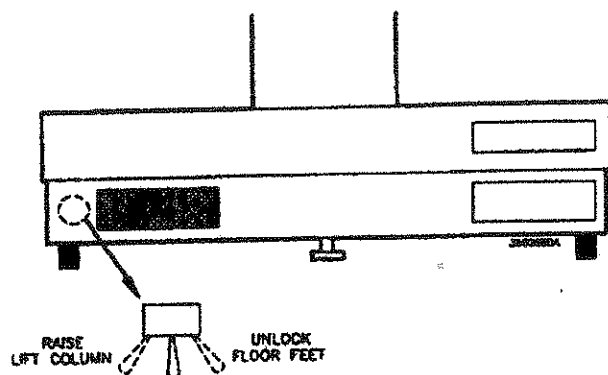
350388-V

PULL
TAB

AUXILIARY CONTROL DRAWER

SERVICE SWITCH

A service switch is located behind the base cover near the manual pump pedal. This three-position switch may be used to unlock the floor feet or raise the lift column when power is not available through the table's power supply. The switch wires the battery directly to one of the hydraulic solenoids.



SERVICE SWITCH

To unlock the floor feet:

1. Extend the manual pump pedal.
2. Hold the momentary switch in the right position.
3. Pump the manual pump with your hand.
4. Release the momentary switch when the floor feet are retracted.

To raise the lift column:

1. Extend the manual pump pedal.
2. Hold the momentary switch in the left position.
3. Pump the manual pump with your hand.
4. Release the momentary switch when the table top has been raised enough to remove the base cover.

NOTES

OPERATOR MAINTENANCE

PERIODIC MAINTENANCE

Regularly scheduled preventive maintenance and inspection is essential for continued reliable operation. The following schedule lists the minimum requirements to maintain the table in a serviceable condition.



The following procedures should be performed by a qualified service technician. Refer to the Service Manual for procedures.

RECOMMENDED MAINTENANCE SCHEDULE

MAINTENANCE ITEM	NORMAL PERIOD
Check hydraulic fluid level	Semi-annually, or whenever leakage is suspected or components have been replaced
Lubrication: 1. Elevate ram 2. Upper pivot points 3. Lower pivot points 4. Kidney elevator	Quarterly Quarterly Semi-annually Annually
Inspection: 1. Electrical safety (visual) 2. Hydraulic system operation 3. Ground continuity/leakage current 4. Flexible hydraulic lines 5. Fasteners and retaining clips 6. Clamps and accessories 7. Structural integrity of table 8. Situational	Monthly Quarterly Semi-annually Annually Annually Annually Annually As required
Replacement: 1. Batteries 2. Filter	Every 5 years Every 5 years

SHAMPAINE 4900B/4900E SURGICAL TABLE

4. Operator Maintenance

CLEANING AND DISINFECTION



CAUTION — Under no circumstances should steam or extremely hot water (over 150°F) be used to disinfect or clean the table. Elevated temperatures and unusually high humidity will weaken the nylon hydraulic lines and result in failure of the hydraulic system. Do not attempt to clean this table in automatic cart washing equipment. Use of high-pressure water guns could lead to an electrical malfunction and must be avoided.

CAUTION — The use of quaternary-type disinfectants without immediate rinsing may result, after an extended period of time, in corrosion of painted and plated table components. Rinse all surfaces which come into contact with this type of disinfectant and wipe dry.

Care should be taken to avoid exposing the table to excessive moisture. Flooding, fogging or steam cleaning is not recommended.

CHROME-PLATED SURFACES

Chrome-plated surfaces should be wiped weekly with a clean, damp cloth.

STAINLESS STEEL SURFACES

Exterior surfaces should be regularly wiped clean with a mild detergent solution, rinsed, and wiped dry with a soft lint-free cloth.

Cleaning Methods

When cleaning stainless steel, never wipe the material in a circular motion. Always make the cleaning strokes in the same straight direction as the grain of the metal.

Clean the surfaces in the following manner:

- Apply an appropriate cleaning agent (use a soft lint-free cloth).
- Rinse the surfaces with clear water (use a soft lint-free cloth).

- Dry the surfaces with a soft lint-free cloth.



CAUTION — Failure to thoroughly dry the surface after cleaning may result in rust.

Cleaning Agents

The best cleaning agent is a mild detergent. If stubborn stains persist, they should be removed using a mild cleanser such as Bon-Ami, or a non-chlorinated, nonabrasive cleanser.

Strong bleaches and disinfectants that are left on the stainless steel may corrode or pit the surface of the metal.

The surface should always be rinsed with clear water and then dried, using a soft lint-free cloth, to remove any residual cleaning agent.

Removing Stains

Special cleaning is required to remove stubborn stains such as plaster or blood that was left on the surfaces for a long period of time. A 5% acetic acid solution or white vinegar is a good stain remover.

Applying Disinfectants

To disinfect exterior surfaces, use a quaternary ammonium or similar type disinfectant compound according to the manufacturer's direction for use. Rinse and wipe dry with a soft lint-free cloth.



CAUTION — DO NOT use iodophors; staining will result.

PAINTED SURFACES

Painted surfaces should be wiped weekly with a damp, clean, soft cloth and frequently washed with a mild soap and water solution to remove persistent stains. Application of paste wax will reduce staining and help preserve the surface luster. Harsh cleansing powders should not be used on painted surfaces.

CONDUCTIVE ITEMS

Conductive cushions, pads, wristlets, belts, etc., can be kept clean by washing them with mild soap suds immediately after staining. If stains are persistent, a soft-bristle brush with mild soap suds or detergents will usually remove the stain. It is important that stains be removed as soon as possible.



The cushions and other accessories must be clean in order to maintain conductivity.

LEATHER AND CANVAS ITEMS

Leather goods, such as wristlets and belts, may be washed with mild soap and water followed by an occasional application of Neatsfoot oil or saddle soap to keep the leather soft and pliable.

Canvas straps may be scrubbed with a soft-bristle brush and detergents or washed in an automatic washer.



Do not put pads on table top when it is wet. Allow table top to dry prior to installing pads and cushions.

CONTROL PENDANT

The control pendant and emergency pendant may be washed with mild detergent solutions, sanitizers, and disinfectants. Abrasive cleaners should not be used.



DO NOT use solvents on plastic surfaces. Most solvents will leave permanent blemishes on plastic parts.

Unplug powercord and turn OFF the Battery ON/OFF switch before cleaning pendant.

SHAMPAINE 4900B/4900E SURGICAL TABLE

4. Operator Maintenance

PARTS AND ACCESSORIES

The replacement parts listed in this manual may be ordered from your Getinge/Castle, Inc. Representative or you may call one of the 800 phone numbers given on the back cover of the manual.

The following list of parts and accessories is provided as a convenient replacement guide.

Qty.	Part No.	Description
1	A-053213	Holder, X-Ray Cassette
1	S-1574-A	Board, Arm
1	A-062208	Pad, Seat/Back Section*
1	A-055601	Pad, Leg Section*
1	A-062210	Pad, Headrest*
1	A-055702	Pad, Leg Extension*
2	S-1579-CSC	Clamp, Side Rail, Removable
1	A-062201	Socket, Anesthesia Screen
2	S-1579-SRC	Clamp, Side Rail
2	A-062206	Socket, Foot Step
1	A-062008	Pendant, Control
1	A-059658	Holder, Pendant
1	A-032384	Shampaine Hydraulic Fluid
1	S-1576-P2	Pad, 2" (for S-1574-A Arm Board)
1	062293	Footswitch

* part of 4003 SPB Pad Set (A-063294)

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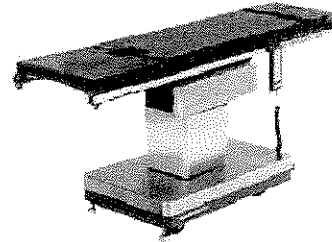
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SHAMPAINE® 4900/4800 SURGICAL TABLE

- Remote control surgical table
- Full c-arm access to accommodate the widest range of positioning requirements
- Electric hydraulic floor locks with self compensating tripod design
- Functions: trendelenburg, lateral tilting, back, leg, kidney and flex.



Typical Manufacturer's Picture

Specifications

Hydraulic System	Powered by a 24-volt DC electric motor and provides power for all table movements. Solenoid valves direct to steel hydraulic cylinders, and safety relief valve is provided.
Operating Controls	On Base – connection to foot controls specific to head orientation; foot actuated floor locks; DC circuit break switch; line cord receptacle; battery charge status display; secondary hand control/drawer; emergency foot pump. Primary hand controls – power bar and articulation switches.
Physical Characteristics	Length: 72 1/2" (1842 mm) (88 3/8" with removable leg extension) Width: 19 3/4" (502 mm) (21 3/4" with side rails) Height: 28" to 43" (711 mm to 1092 mm) Trendelenburg: up to 25° Reverse Trendelenburg: up to 18° Lateral Tilt: up to 18° Back Section: adjustable 30° below horizontal to 90° above horizontal Kidney Elevator: extendable up to 2 1/2" (64 mm) Leg Section: adjustable from 90° below horizontal to 45° above in 15° increments. Electrical Power Requirements: 115 VAC, 50/60 Hz, 4A, single-phase or 230 VAC, 50/60 Hz, 2A, single phase.
Max. Patient Weight	500 lbs

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